

Seattle Labor Temple

Landmarks Preservation Board - Certificate of Approval

September 10, 2020





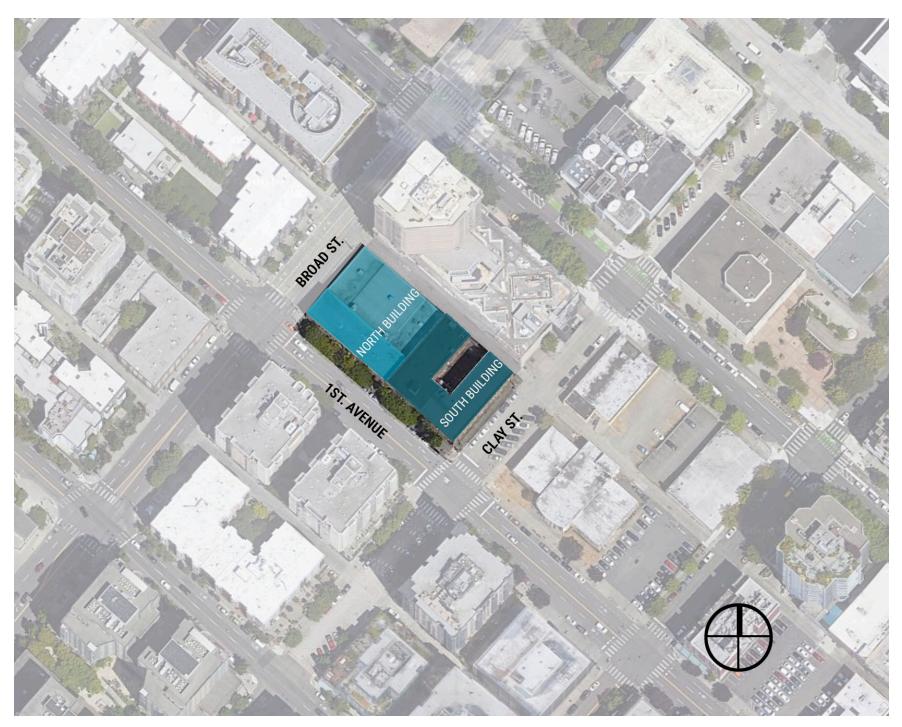




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BUILDING CONTEXT



One of the historic replica market's most persistent challenges is trading occupant comfort for slim sightlines. Most companies focus solely on minimizing sightlines to the point building occupants are left sitting next to a beautiful but ultimately inferior window with limited usability and insufficient performance for long-term use. This approach works well where there are buildings without occupants.

EFCO's 590X steel replica solves this challenge through balancing occupant comfort with minimal sightlines desired by the architectural and historic preservation communities. Alongside the 590X stands EFCO's 65+ years of window manufacturing experience. We've learned a thing or two through the years and can provide a full product offering, including extensive window accessories developed specifically for the historic market. Additional services available are: pre-sale design and engineering support, installation training, energy analysis of the building envelope and a technically superior sales force you can consult with to find solutions for the most challenging applications.

AAMA RATING (A440)	\bigcirc	STRUCTURAL LOAD (ASTM E330)	→ [:]
FX: AW100 PO: AW80	4	FX: +/- 150 PSF PO: +/- 120 PSF	7191
AIR INFILTRATION (ASTM E283)	1 50	WATER RESISTANCE (ASTM E547 & E331)	.(3)
FX: < 0.10 CFM/FT ² PO: < 0.10 CFM/FT ²	20	FX: 15 PSF PO: 15 PSF	00
U-FACTOR* (ANSI/NFRC 100/200)	<u> </u>	CRF (AAMA 1503)	***
FX: 0.18 - 0.52 PO: 0.30 - 0.62	® -	FX: 70 PO: 66	**************************************
STC* (ASTM E90 & E413)	(1)	OITC* (ASTM E90 & E413)	
FX: 25-37 PO: 24-36		FX: 23-32 PO: 21-30	
FORCED ENTRY (ASTM F588 OR F842)	-	ACCESSIBILITY (AAMA 513)	i K
TYPE B: GRADE 40		PO & CASEMENT OUT	

^{*} Performance dependent on glass selection. Please contact your EFCO sales rep for project specific performance.

STANDARD FEATURES

- System depth: 3-1/4"
- Dry-glazed with heel bead: Can remove glass from building interior
- Integral water management: Any water penetrating past weather-stripping is redirected to building exterior
- Up to 1 3/8" glass thickness: Quieter interior environment
- Customizable perimeter and intermediate grid: Economic grid customization to match existing sightlines
- Tested to AAMA 513: Easier window operation for the elderly and disabled

ALL TEST NUMBERS LISTED ARE ANTICPATED PERFORMANCE. FINAL TESTING RESULTS WILL BE AVAILABLE JULY 1, 2020

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Disclaimer: Info subject to change at any time

Updated: 1/2020

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PROPOSED WINDOW PRODUCT | EFCO CORPORATION

Series 590 Thermal

27/16" Heavy Commercial Fixed & Projected Replication Window



CONFIGURATIONS

Casement Out • Projected Out • Fixed

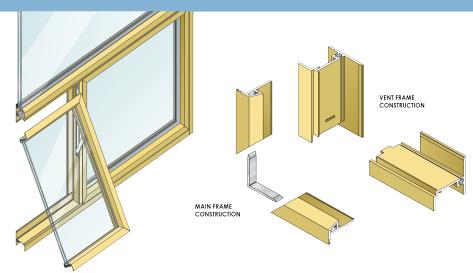
Series 590 is designed to replicate the "putty glazed" appearance of steel windows, the 590 window system is an attractive product for a wide range of applications. Thermal barriers in the frame improve thermal performance enhancing energy saving potential. Offered with a complete line of sub frames, mullions and architectural sills the 590 window provides the complete solution for your fenestration needs.

	Benefits
-eatures	RANAIIIC

Thermal barrier in vent/sash and frame	Improves thermal performance
	Enhances energy saving potential
Angle reinforced vent corners	Improves sash/vent rigidity
Vertical or horizontal stacking members	Increases configuration options
Pressure equalization	Superior water resistance
Wide variety of locking and operating hardware available	Permits hardware options to address specific requirements
Screen frames of extruded aluminum alloy are available	Stronger, more durable screens
Accessory line of subframes, mullions, and architectural sills	Allows custom designs with standard product
Anodized and painted finishes available	Multiple options to answer economic and aesthetic concerns EFCO

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Series 590 Thermal 2 7/16" Heavy Commercial Fixed & Projected Replication Window



PERFORMANCE DATA

PROJECTED HEAVY COMME	RCIAL
AIR INFILTRATION	<10 CFM/SF @ 6.24 PSF
WATER	NO LEAKAGE @ 12.0 PSF
STRUCTURAL	±135 PSF
CRF-FRAME (1503.98)	44 ^E
CRF-GLASS (1503.98)	71 ^E

ASEMENT HEAVY COMMERCIAL	
IR INFILTRATION	<.10 CFM/SF @ 6.24 PSF
VATER	NO LEAKAGE @ 12.0 PSF
TRUCTURAL	±120.0 PSF
RF-FRAME (1503.1)	510
DE CLASS /1509 11	5.5D

GLASS OR PANEL

I	A = Estimated values and/or designations B = Non-standard size or configuration
	B = Non-standard size or configuration
	C = Dual glazed
	D = 1" Insulated - 1/4" clear, 1/2" air, 1/4" clear
	E = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" air, 1/4" clear
	F = 1" Insulated - 1/4" clear (LowEmissivity),1/2" argon,1/4" clear
	$D=1"\ Insulated -1/4"\ clear, I/2"\ air, 1/4"\ clear$ $E=1"\ Insulated -1/4"\ clear\ (Low Emissivity), 1/2"\ air, 1/4"\ clear$ $F=1"\ Insulated -1/4"\ clear, (Low Emissivity), 1/2"\ airgon, 1/4"\ clear$ $G=1"\ Insulated -1/4"\ clear, 1/2"\ air, 1/4"\ clear\ (Low Emissivity)$

TOP-HINGED OUTSWING HEAVY COMMERCIAL

S-590 HARDWARE CHART

PROJECT-OUT

CASEMENT OUTSWING
WITH 4-BAR ARMS

GLAZING CHART

AIR INFILTRATION	<10 CFM/SF @ 6.24A P:
WATER	NO LEAKAGE @ 6.0A P:
STRUCTURAL	±60.0A P:
CRF-FRAME (1503.1)	46
	42'

590 THERMAL U-FACTORS*						
CENTER OF GLASS	CONFIGURATION AND SIZE					
U-FACTOR	FIXED** 47" X 59"	FIXED 60" X 108"	PROJECT OUT** 59" X 24"	PROJECT OUT 60" X 66"		
0.47	0.54	0.52	0.63	0.56		
0.34	0.44	0.41	0.55	0.45		
0.29	0.41	0.36	0.51	0.41		
0.25	0.38	0.33	0.49	0.38		
0.00	0.24	0.00	0.47	0.24		

0.20		0	.34	0.29	0.46 0.34		0.46 0.34		
OR FOR*	CA/ HANE		С	RING AM NDLE	POLE RING PULL**	ACCI CONTRO LOC	DLLED	LIFT LOCK	Some size restrictions may a depending on hardware se * Casements requiring roto will be furnished with lift loc
	s			0	0	0			vents meet minimum width ** Pole ring pull will be furnis project-out vents when opt
	٠			>					ring cam handle is selected

			* Obscure :
1-1/2"	1-3/4"	2"	A - Availabl I - Internal b

ass thickness
glass fhickness
glazing option
ads can be
type of dual

EFCO
a Pella Company

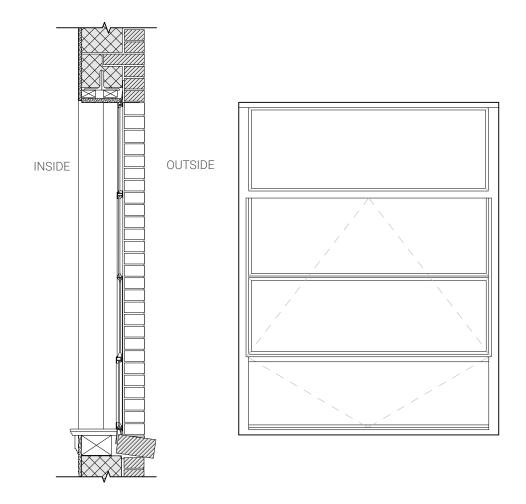
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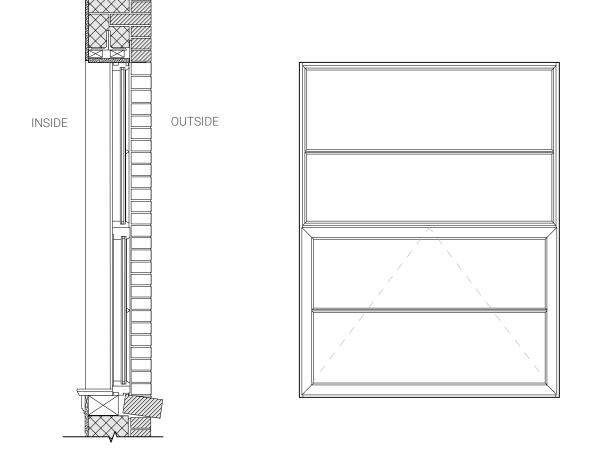
4-BAR ARMS FRICTION ADJUSTER KEY RELEASE

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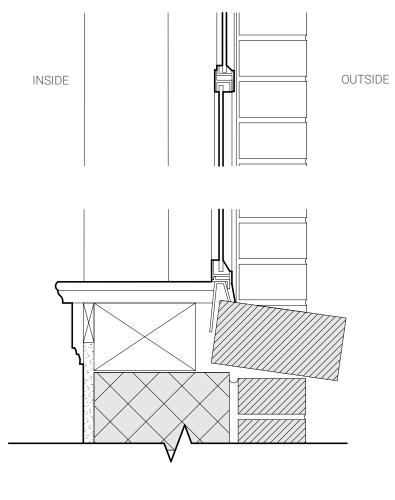
EXISTING THIRD FLOOR WINDOW DETAILS

Scale 3/4" = 1'-0"

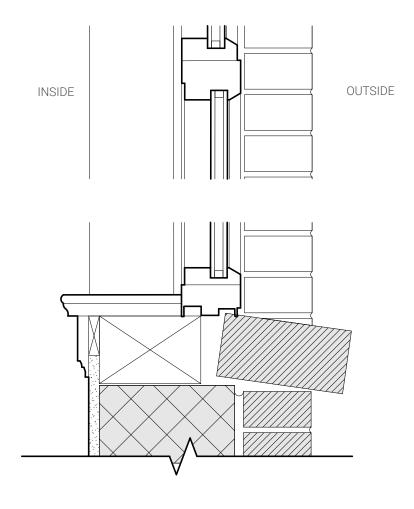
PROPOSED REPLACEMENT WINDOW DETAILS

Scale 3/4" = 1'-0"

PROPOSED WINDOW PRODUCT | EFCO CORPORATION



EXISTING WINDOW SILL TYP Scale 1 1/2" = 1'-0"

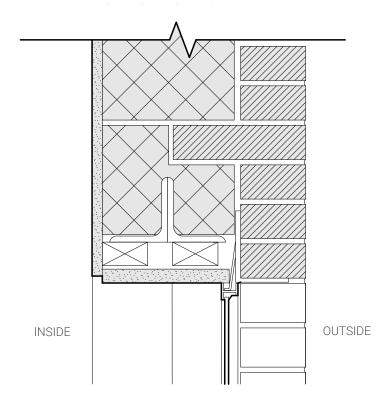


PROPOSED WINDOW SILL TYP Scale 1 1/2" = 1'-0"

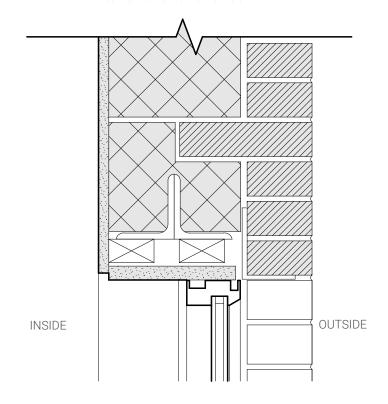
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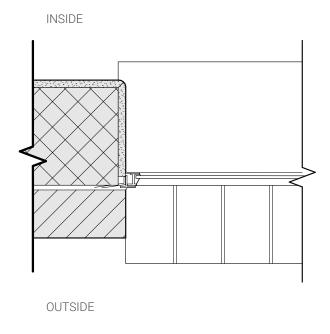


EXISTING WINDOW HEAD TYP Scale 1 1/2" = 1'-0"

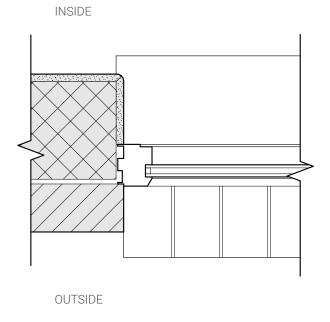


PROPOSED WINDOW HEAD TYP Scale 1 1/2" = 1'-0"

PROPOSED WINDOW PRODUCT | EFCO CORPORATION



EXISTING WINDOW JAMB TYP Scale 1 1/2" = 1'-0"



PROPOSED WINDOW JAMB TYP Scale 1 1/2" = 1'-0"

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